

AECOM 100 North Broadway 20th Floor St. Louis MO, 63102 USA aecom.com

December 14, 2018

Illinois Environmental Protection Agency Bureau of Water Compliance Assurance Section, Mail Code #19 1021 North Grand Avenue East Springfield, Illinois 62794-9276

Illinois Environmental Protection Agency DWPC Marion Region 2309 West Main Street Marion, Illinois 62959

Discharge Monitoring Report for November 2018 (Permit No. 2015-EP-59681-1) Pump and Treat System Crab Orchard National Wildlife Refuge, Marion, Illinois

Dear Sir or Madam:

AECOM, on behalf of the United States Fish and Wildlife Service (USFWS), is submitting the attached November 2018 Discharge Monitoring Report (DMR) for the subject treatment system located on the Crab Orchard National Wildlife Refuge (CONWR) in Marion, Illinois. This DMR has been prepared as required by the Permit to Construct, Own, and Operate (Permit No. 2015-EP-59681-1), dated April 28, 2017, for discharge to the City of Marion, IL publicly owned treatment works (POTW). Discharge of the treated effluent of the Pump and Treat System to the Marion POTW commenced on May 4, 2011. For the month of November 2018, the system operated the full duration of the month. The enclosed discharge summary was used to prepare the DMR.

Please contact Mr. Andy Day (314.429.0100) with any questions.

Sincerely,

Andy Day

Environmental Scientist

AECOM

encl: DMR

Discharge Summary

cc: (via electronic mail)
Viral Patel USEWS

Viral Patel, USFWS Paul Lake, IEPA

Mike Coffey, USFWS Project Coordinator

Chuck Beasley, USFWS

Brent Cain, City of Marion POTW

Form Approved
OMB No. 2040-0004

USFWS

Crab Orchard National Wildlife

ADDRESS R

NAME

Refuge

8588 Route 148 Marion, IL 62599

PARAMETER

2015-EP-59681-1
PERMIT NUMBER

QUANTITY OR LOADING

to POTW

DISCHARGE NUMBER

QUALITY OR CONCENTRATION

FACILITY Crab Orchard National Wildlife **LOCATION** Refuge Superfund Site

	MONITORING PERIOD								
	YEAR	MO	DAY		YEAR	МО	DAY		
FROM	2018	11	01	то	2018	11	30		

NOTE: Read instructions before

NO.

FREQUENCY

OF

SAMPLE

PARAMETER	. \/									I 0F	0,	
PARAMETER		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMU	І М	UNITS	EX	OF ANALYSIS	TYPE
Flow, Total Daily Volume	SAMPLE	4,627	4,733	gpd						0	Daily	Cont
	PERMIT REQUIREMENT	7,200	14,400								Daily	Cont
Flow, Daily Average Rate	SAMPLE	3.2	3.3	gpm						0	Daily	Cont
	PERMIT REQUIREMENT	Report	Report								Daily	Cont
pH, Standard Units	SAMPLE				7.11		7.11		s.u.	0	1/mo	Grab
	PERMIT REQUIREMENT				5.5		9.5				1/mo	Grab
Polychlorinated Biphenyls, total	SAMPLE				<0.00050	<0.00050	<0.00050		mg/L	0	1/mo	Grab
	PERMIT REQUIREMENT						0.003				1/mo	Grab
	SAMPLE											
	PERMIT REQUIREMENT											
	SAMPLE											
	PERMIT REQUIREMENT											
	SAMPLE											
	PERMIT REQUIREMENT											
NAME/TITLE PRINCIPAL EXECUTIVE OFF	supervision	der penalty of law that this docu	gned to assure that qualified pers	sonnel properly gathe	er and evaluate	LHB			TELEPHONE		DA	ſE
Andrew T. Day	ectly responsible for gathering the i true, accurate, and complete. I	information, the information subm am aware that there are signific	y of the person or persons who manage the system, or those mation, the information submitted is, to the best of my knowledge aware that there are significant penalties for submitting false prisonment for knowing violations. SIGNATURE OF PRINCIF				314	802.11	41	2018 12	2 13	
TYPED OR PRINTED		. , , , , , , , , , , , , , , , , , , ,	•			OFFICER OR AUTHORIZED AGENT		AREA	NUMBE	R	YEAR M	D DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Operated under the supervision of Andrew Day and Brooks Pfeiffer, Class K Operators - Crab Orchard Pump and Treat System

Crab Orchard National Wildlife Refuge Permanent Pump and Treat System Discharge Summary - November 2018 AECOM Project Number: 60555096

				Effluent		
November	Flow	Totalizer	Total Flow	Total PCBs pH		
2018	(gpm)	(gal)	(gpd)	(mg/L)	(s.u.)	Comments
11/01/18	3.27	7,019,864	4,697			
11/02/18	3.28	7,024,561	4,699			
11/03/18	3.28	7,029,260	4,699			
11/04/18	3.28	7,033,959	4,701			
11/05/18	3.28	7,038,660	4,700			
11/06/18	3.29	7,043,360	4,733			
11/07/18	3.30	7,048,093	4,726			
11/08/18	3.28	7,052,819	4,702			
11/09/18	3.20	7,057,521	4,633			
11/10/18	3.20	7,062,154	4,615			
11/11/18	3.20	7,066,769	4,612			
11/12/18	3.20	7,071,381	4,605			
11/13/18	3.20	7,075,986	4,601			
11/14/18	3.20	7,080,587	4,597	< 0.0005	7.11	
11/15/18	3.20	7,085,184	4,592			
11/16/18	3.20	7,089,776	4,593			
11/17/18	3.20	7,094,369	4,599			
11/18/18	3.20	7,098,968	4,596			
11/19/18	3.20	7,103,564	4,598			
11/20/18	3.20	7,108,162	4,593			
11/21/18	3.20	7,112,755	4,591			
11/22/18	3.20	7,117,346	4,590			
11/23/18	3.20	7,121,936	4,592			
11/24/18	3.20	7,126,528	4,593			
11/25/18	3.20	7,131,121	4,593			
11/26/18	3.20	7,135,714	4,588			
11/27/18	3.20	7,140,302	4,587			
11/28/18	3.20	7,144,889	4,589			
11/29/18	3.20	7,149,478	4,592			
11/30/18	3.20	7,154,067	4,595			
				Effluent		
Data	Flow	Totalizer	Total Flow	Total PCBs	pΗ	
Summary	(gpm)	(gal)	(gpd)	(mg/L)	(s.u.)	Comments
Minimum	3.2	7,019,864	4,587		7.11	
Average	3.2	7,087,304	4,627	< 0.00050	7.11	
Maximum	3.3	7,154,067	4,733	< 0.00050	7.11	

Notes:

gpm - gallons per minute

gal - gallons

gpd - gallons per day

PCBs - polychlorinated biphenyls mg/L - milligrams per liter < - analyte not detected

s.u. - standard units